

XL.—*A List of the Birds collected by the late Mr. W. A. Forbes in the Niger Region.* By Captain G. E. SHELLEY, F.Z.S.

(Plate XIV.)

OUR late fellow-worker Mr. W. A. Forbes, during his expedition to the unhealthy region of the Niger, where he succumbed to the deadly effects of the climate, made a valuable collection of birds, comprising examples of over one hundred species. Many of them are extremely rare, and several of them hitherto only known from North-east Africa, as, for instance, *Muscicapa aquatica*, Heugl., *Hyphantornis atrogularis*, Heugl., *Lagonosticta melanogastra*, Heugl., and *L. nigricollis*, Heugl. This would indicate apparently that there is no obstacle to the transit of birds between the upper waters of the White Nile and those of the Niger.

The following list contains an enumeration of the specimens collected by Mr. Forbes, and their localities, together with the collector's notes where there are any on the labels.

1. *TURDUS PELIOS*.

Turdus pelios, Bp. Consp. Gen. Av. i. 1850, p. 273; Hartl. Orn. W.Afr. p. 75; Seebohm, Cat. B. Brit. Mus. v. p. 230.

a. ♂, Shonga, 25th December: iris brown; bill orange-yellow; legs dirty greenish yellow. *b.* ♂, Shonga: iris and bill brown; legs brownish yellow.

2. *COSSYPHA ALBICAPILLA*.

Turdus albicapillus, Vieill. Nouv. Dict. xx. 1819, p. 254.

Cossypha albicapillus, Hartl. Orn. W.Afr. p. 77.

a. ♂, Shonga: iris crimson; bill and legs black.

3. *COSSYPHA VERTICALIS*.

Petrocincla albocapilla, Swains. (nec Vieill.), B. W. Afr. i. 1837, p. 284, pl. 32.

Cossypha verticalis, Hartl. Beitr. zur Orn. W.Afr. in Abh. Geb. Nat. Hamburg, ii. pt. 2, 1852, p. 23; id. J. f. O. 1854, p. 22; id. Orn. W.Afr. p. 77.

a. ♂, Shonga: iris dark brown; bill black; legs pinkish

horn-colour. *b.* ♂, Shonga: iris brown; bill black; feet dark brownish grey.

4. CRATEROPUS REINWARDTI.

Crateropus reinwardti, Swains. Zool. Ill. 2nd ser. ii. pl. 80.

Crateropus reinwardtii, Hartl. Orn. W.Afr. p. 78.

a. ♀, Shonga: iris yellowish white; bill black; legs horn-colour.

5. HYPERGERUS ATRICEPS.

Moho atriceps, Less. Tr. d'Orn. 1831, p. 646.

Hypergerus atriceps, Hartl. Orn. W.Afr. p. 80.

a. ♀, *b.* ♀, Shonga: iris brown or chestnut; bill black; feet pale flesh-colour.

6. PRATINCOLA RUBETRA.

Motacilla rubetra, Linn. S. N. i. 1766, p. 334.

Pratincola rubetra, Hartl. Orn. W.Afr. p. 67; Sharpe, Cat. B. Brit. Mus. iv. p. 179.

a, b, Shonga.

7. PENTHOLÆA ALBIFRONS.

Saxicola albifrons, Rüpp. Neue Wirb. Vög. 1835-40, p. 78; id. Syst. Uebers. p. 40, pl. 17.

Saxicola frontalis, Swains. B. W. Afr. ii. 1837, p. 46.

Pentholæa frontalis, Cab. Mus. Hein. i. p. 40.

Thamnobia frontalis, Hartl. Orn. W.Afr. p. 68.

Pentholæa albifrons, Heugl. Orn. N.O.-Afr. p. 364, App. p. 101.

a. ♂, Lukoja: iris brown. *b.* ♀, Loko: iris brown.

On comparing the male with two other specimens in my own collection, it would appear that the white forehead (only met with in the male) varies in extent, probably according to age.

Although I follow Von Heuglin and Finsch, it does not appear to me certain that Rüppell's name has priority over that given by Swainson.

8. PHYLLOSCOPUS TROCHILUS.

Motacilla trochilus, Linn. S. N. i. 1766, p. 338.

Phylloscopus trochilus, Dresser, B. Eur. ii. p. 491, pl. 76 ; Seebohm, Cat. B. Brit. Mus. v. p. 56.

a. ♂, Shonga, 24th December: upper mandible horn-colour; lower mandible yellowish; legs horn-colour, soles yellow.

9. *HYPOLAIS OPACA*.

"*Hypolais opaca* (Licht.)," Cab. Mus. Hein. i. 1850, p. 36; Hartl. Orn. W.Afr. p. 60; Dresser, B. Eur. ii. p. 531, pl. 82. fig. 1; Seebohm, Cat. B. Brit. Mus. v. p. 83.

a. ♂, Shonga, December: upper mandible horn-colour; lower mandible yellowish; legs greenish grey.

Although I consider *H. opaca* to be only a western race of *H. pallida*, I find the characters assigned for the separation of these two forms are recognizable on comparing the above specimen with a male of *H. pallida* in my own collection from Lado in N.E. Africa.

10. *ACROCEPHALUS TURDOIDES*.

Acrocephalus arundinaceus, Dresser, B. Eur. ii. p. 579, pl. 88.

Acrocephalus turdoides, Seebohm, Cat. B. Brit. Mus. v. p. 95; List Brit. B. 1883, p. 19.

a. ♂, Shonga, November: iris olive; bill horn-colour, fading into flesh-colour towards the base of the lower mandible; feet bluish grey. *b.* ♂, Shonga, December: iris olive-brown.

This species is new to the Niger district, having, so far as I know, only been previously collected in W. Africa on the Congo by Messrs. Lucan and Petit.

11. *MELOCICHLA MENTALIS*.

Drymoica mentalis, Fraser, P. Z. S. 1843, p. 16.

Melocichla mentalis, Hartl. Orn. W.Afr. p. 58.

a. ♂, Shonga: iris brown, greyish round pupil; bill very dark horn-colour, tip of mandible yellowish; legs light grey. *b.* ♀, Shonga: iris pale creamy yellow; upper mandible dark horn-colour; lower one pale flesh-colour; legs livid flesh-colour. *c.* ♀, Lukoja: iris brownish yellow; bill pale bluish;

upper mandible darker; feet bluish flesh-colour. *d*, not labelled.

12. *PRINIA MYSTACEA*.

Prinia mistacea, Rüpp. Neue Wirb. Vög. 1835-40, p. 110.

Drymæca melanorhyncha, Hartl. Orn. W.Afr. p. 56.

Prinia mystacea, Sharpe, Cat. B. Brit. Mus. vii. p. 191.

a. ♂, Lukoja; *b*. ♀, Loko: iris yellow; bill black; feet light red; nails grey.

13. *CISTICOLA CINERASCENS*.

Drymæca cinerascens, Heugl. J. f. O. 1867, p. 296.

Cisticola cinerascens, Sharpe, Cat. B. Brit. Mus. vii. p. 249.

a, Shonga: iris light chestnut; upper mandible horn-colour, lower one bluish grey; feet light red, claws grey.

14. *CISTICOLA ERYTHROPS*.

Drymæca erythrops, Hartl. Orn. W.Afr. 1857, p. 58.

Cisticola erythrops, Sharpe, Cat. B. Brit. Mus. vii. p. 250.

a. ♂, Lukoja: iris ochreous yellow; legs reddish flesh-colour.

15. *CISTICOLA RUFA*.

Drymoica rufa, Fraser, P. Z. S. 1843, p. 17.

Drymoica brachyptera, Sharpe, Ibis, 1870, p. 476.

Cisticola rufa, Sharpe, Cat. B. Brit. Mus. vii. p. 252.

a. ♂, Shonga: iris olive-brown; upper mandible horn-colour; lower one and legs flesh-colour. *b*, Shonga.

a is an adult in winter plumage, *b* is an immature bird.

16. *CISTICOLA STRANGEI*.

Drymoica strangei, Fraser, P. Z. S. 1843, p. 16.

Drymoica fortirostris, Hartl. Orn. W.Afr. p. 56.

Cisticola strangei, Sharpe, Cat. B. Brit. Mus. vii. p. 276.

a. ♂, *b*. ♂, Shonga: iris brownish yellow; upper mandible horn-colour, lower one very pale flesh-colour; legs flesh-colour.

This is the W.-African representative of *C. natalensis*, Smith, of which it is only a small race.

17. *CISTICOLA LUGUBRIS*.

Sylvia lugubris, Rüpp. Neue Wirb. Vög. 1834-40, p. 111.

Drymæca nævia, Hartl. Orn. W.Afr. p. 56.

Cisticola lugubris, Sharpe, Cat. B. Brit. Mus. vii. p. 280.

a. ♂, *b.* ♂, Shonga: iris yellowish brown; upper mandible horn-colour, lower one flesh-colour; feet flesh-colour. *c.* Shonga: iris brownish yellow; bill horn-colour; upper mandible darker; feet light red. *d.* ♂, Egga: iris brownish yellow. *e.* ♂, *f.* ♀, Lukoja.

a is in immature plumage, the others are adult.

18. *CAMAROPTERA BREVICAUDATA*.

Sylvia brevicaudata, Rüpp. Atlas, 1826, p. 53, pl. 53. fig. *b.*

Camaroptera brevicaudata, Hartl. Orn. W.Afr. p. 62.

a. ♂, Shonga: iris orange-brown; bill horn-colour; legs light red.

19. *DRYODROMAS CANICEPS*.

Camaroptera caniceps, Cass. Pr. Philad. Acad. 1859, p. 38

Dryodromas caniceps, Finsch & Hartl. Vög. Ost-Afr. p. 240; Sharpe & Bouvier, Bull. Soc. Zool. France, 1876, p. 306.

a. ♂, Shonga: iris yellowish brown, yellower round pupil; bill dark brown; feet light red.

This is the most northern limit known for this species, which ranges from the Congo to the Niger. The specimen agrees well with Mr. Cassin's description, *l. c.*

20. *EREMOMELA PUSILLA*.

Eremomela pusilla, Hartl. Orn. W.Afr. p. 59.

a. ♀, Lukoja: iris brown; upper mandible horn-colour, lower one yellowish; legs ochreous. *b.* Lukoja.

21. *MOTACILLA VIDUA*.

Motacilla vidua, Sund. Kongl. Vetensk. Ak. Handl. 1850, p. 128.

a. ♂, Lukoja: iris brown. *b.* Rabba (*Greenshields*).

22. *MOTACILLA FLAVA*.

Motacilla flava, Linn. S. N. i. 1766, p. 331; Dresser, B. Eur. iii. p. 261, pl. 129.

a. ♂, Shonga: iris brown; bill and feet blackish. *b.* Shonga, December. *c.* Shonga.

None of these specimens are in quite full plumage; but they all have the white eyebrow of the typical race.

23. *ANTHUS TRIVIALIS.*

Alauda trivialis, Linn. S. N. i. 1766, p. 288.

Anthus trivialis, Dresser, B. Eur. iii. p. 309, pl. 132. fig. 1.

a. Shonga, November: iris olive-brown; upper mandible horn-colour, lower mandible flesh-colour; feet pale flesh-colour.

24. *ANTHUS PYRRHONOTUS.*

Alauda pyrrhonota, Vieill. Nouv. Dict. i. 1816, p. 361.

Anthus gouldi, Hartl. Orn. W.Afr. p. 73.

a. ♂ breeding, Shonga: iris brown; bill yellow; upper mandible horn-colour; legs light red.

25. *MACRONYX CROCEUS.*

Alauda crocea, Vieill. Nouv. Dict. i. 1816, p. 365.

Macronyx croceus, Hartl. Orn. W.Afr. p. 73.

a. ♂, *b.* ♀, Shonga: iris brown; upper mandible dark horn-colour, lower mandible bluish grey; legs ochreous.

26. *CRINIGER BARBATUS.*

Trichophorus barbatus, Temm. Pl. Col. pl. 88 (1824); Hartl. Orn. W.Afr. p. 82.

Criniger barbatus, Sharpe, Cat. B. Brit. Mus. vi. p. 82.

a. ♀, *b.* ♀, Shonga: iris ochraceous.

27. *XENOCICHLA SCANDENS.*

Phyllastrephus scandens, Swains. B. W. Afr. i. 1837, p. 270, pl. 30; Hartl. Orn. W.Afr. p. 89.

Xenocichla scandens, Sharpe, Cat. B. Brit. Mus. vi. p. 102.

a. ♂, Shonga: iris brown; bill and feet bluish grey; upper mandible darker; claws flesh-colour.

This is the most southern limit of this species; formerly it was only known to range from Senegambia to the Gold Coast.

28. *ANDROPADUS VIRENS.*

Andropadus virens, Cass. Pr. Phil. Acad. 1857, p. 34;

- a.* ♂, Shonga: iris brown; bill and feet dark horn-colour.
b. ♀, Shonga.

29. PYCNONOTUS BARBATUS.

Turdus barbatus, Desfont. Mém. de l'Ac. Roy. Sciences, 1787, p. 50, pl. 13.

Ixos ashanteus et *I. inornatus*, Hartl. Orn. W.Afr. p. 88.

Pycnonotus barbatus, Dresser, B. Eur. iii. p. 353, pl. 142; Sharpe, Cat. B. vi. p. 146.

- a.* ♂, Shonga; *b.* ♂, Loko: iris and eye-ring brown. *c.* ♂, Lukoja: iris brown.

30. DICRURUS LUDWIGI.

Dicrurus ludwigi, "Smith, Proc. S. Afr. Instit. 1834," *fide* Smith, Ill. Zool. S. Afr. pl. 34; Sharpe, Cat. B. Brit. Mus.

- a.* ♀, Shonga: iris bright red; bill and legs black.

The present bird is certainly identical with my specimens of *D. ludwigi* from Natal; and I much doubt whether *Dicrurus atripennis*, Swains. (B. W. Afr. i. 1837, p. 256, pl. 29), is distinct from the *D. ludwigi*, Smith, 1834.

31. CAMPOPHAGA PHÆNICEA.

Ampelis phænicea, Lath. Ind. Orn. i. 1790, p. 367.

Campophaga phænicea, Hartl. Orn. W.Afr. p. 98; Sharpe, Cat. B. Brit. Mus. iv. p. 59.

- a.* ♀, Shonga: iris brown; bill blackish, fading into flesh-colour towards the base; legs black.

32. LANIUS BADIUS.

Lanius badius, Hartl. J. f. O. 1854, p. 100, Gold Coast.

Lanius rufus, Hartl. Orn. W.Afr. p. 102, pt. *L. badius*.

Lanius auriculatus, Dresser, B. Eur. iii. p. 407, pt., Gold Coast.

- a.* ♂, Shonga, December: iris brown; bill bluish black, dull flesh-colour towards the base; feet black. *b.* ♂, Shonga: iris brown; bill bluish flesh-colour; culmen and apex darker; legs blackish.

These specimens agree perfectly with two others in my own collection, from the Gold Coast, in having no white at

the base of the primaries. The absence of a white patch on the primaries appears to me the only character by which *L. badius* can be separated from the European Woodchat Shrike, *L. pomeranus*; but this character is a very striking one.

33. LANIARIUS BARBARUS.

Lanius barbarus, Linn. S. N. i. p. 137 (1766).

Laniarius barbarus, Hartl. Orn. W.Afr. p. 107.

a. ♀, Shonga: iris brown; bill bluish black; legs bluish grey. b, not labelled.

34. DRYOSCOPIUS GAMBENSIS.

Lanius gambensis, Licht. Verz. Doubl. 1823, p. 48.

Dryoscopus gambensis, Hartl. Orn. W.Afr. p. 110.

a. ♂, Lukoja: iris orange-yellow.

35. PRIONOPS PLUMATUS.

Lanius plumatus, Shaw, Gen. Zool. vii. 1809, p. 292.

Prionops plumatus, Hartl. Orn. W.Afr. p. 107; Sharpe, Cat. B. Brit. Mus. iii. p. 320.

a, Rabba (*Greenshields*).

This specimen agrees well with one in my own collection from the Gambia.

36. BRADYORNIS PALLIDUS.

Muscicapa pallida, Von Müll. Naum. i. pt. 4, 1851, p. 28.

Bradyornis pallidus, Sharpe, Cat. B. Brit. Mus. iv. p. 310.

Bradyornis modestus, Shelley, Ibis, 1873, p. 140.

a. ♂, Loko. This bird is in immature plumage: it agrees perfectly with a specimen in my own collection from the White Nile (*Emin Bey*).

37. PACHYPRORA SENEGALENSIS.

Muscicapa senegalensis, Linn. S. N. i. 1766, p. 327.

Platystira senegalensis, Hartl. Orn. W.Afr. p. 93.

Batis * *senegalensis*, Sharpe, Cat. B. Brit. Mus. iv. p. 134.

a. ♂, Lukoja: iris bright yellow.

* *Batis* has been previously used in botany.

38. *PLATYSTIRA CYANEA*.

Muscicapa cyanea, P. L. S. Müll. Syst. Nat. Suppl. 1766, p. 170.

Platystira melanopectera, Hartl. Orn. W. Afr. pp. 92, 272.

Platystira cyanea, Sharpe, Cat. B. Brit. Mus. iv. p. 145.

a, Shonga: iris bluish grey, with very narrow silvery ring round pupil; eyelids black; fleshy wattle vermilion; bill black; feet dark grey. This is an adult male.

b. ♀, Shonga: iris blue-grey, with silver ring round pupil; wattles scarlet (externally only), internally parchment like; bill black; legs dark grey.

39. *MUSCICAPA AQUATICA*.

Muscicapa aquatica, Heugl. J. f. O. 1864, p. 256; Sharpe, Cat. B. Brit. Mus. iv. p. 154.

a. ♂, Egga: iris brown. Total length 5·5 inches, culmen 0·55, wing 2·7, tail 2·2, tarsus 0·55.

b. ♂, Shonga. Total length 5·2 inches, culmen 0·45, wing 2·7, tail 2·2, tarsus 0·55.

This species has been rarely obtained, possibly owing to its close resemblance to *M. grisola*, from which it may be most readily distinguished by the colouring of the flanks, crop, and sides of the neck being duller and of a more ashy shade, with no rufous tint, and no inclination in the colour to form stripes; the under tail-coverts are pale ashy brown, not white. The upper parts are duller, slightly darker, and more ashy, and the crown nearly uniform; the wings are more uniform, the pale edges to the wing-coverts and secondaries being almost obsolete.

40. *HYLIOTA FLAVIGASTRA*.

Hyliota flavigastrea, Swains. 1837, Class. B. ii. p. 263; id. B. W. Afr. ii. p. 47; Hartl. Orn. W. Afr. p. 97; Sharpe, Cat. B. Brit. Mus. iv. p. 248.

a. ♂ adult, Loko, 30th August: iris brown; bill bluish grey; upper mandible blackish; legs grey. *b*, immature, Loko.

41. *TERPSIPHONE CRISTATA*.

Muscicapa cristata, Gm. S. N. 1788, p. 938.

Terpsiphone cristatus, Sharpe, Cat. B. Brit. Mus. iv. p. 354.

a. ♂ adult, Shonga: iris dark brown; eyelids carunculated and light violet-blue; bill and feet greyish blue. *b.* ♂ adult, Shonga: iris brown; eyelids violet-blue; bill violet-blue, blackish towards the tip; feet violet-blue. *c.* ♂ immature, Shonga: soft parts as above. *d.* ♀, Shonga: iris brown; bill horn-colour, paler on the lower mandible; feet bluish grey.

42. *ELMINIA LONGICAUDA*.

Myiagra longicauda, Swains. Monogr. Flyc. in Nat. Libr. x. 1838, p. 210, pl. 25.

Elminia longicauda, Hartl. Orn. W.Afr. p. 93; Sharpe, Cat. B. Brit. Mus. iv. p. 363.

a. ♂, Shonga: iris brown; bill and feet black.

43. *HIRUNDO ÆTHIOPICA*.

Hirundo æthiopica, Blanf. Ann. Nat. Hist. iv. 1869, p. 329; Sharpe, P.Z. S. 1870, p. 309; Blanf. Geol. & Zool. Abyss. p. 347, pl. 2.

a. ♂, Shonga. *b.* Lukoja.

New to W. Africa.

44. *HIRUNDO DOMICELLA*.

Hirundo melanocrissus, Hartl. (nec Rüpp.), Orn. W.Afr. p. 27.

Hirundo domicella, Hartl. & Finsch, Vög. Ost-Afr. 1870, p. 142; Sharpe, P.Z. S. 1870, p. 315.

a. ♂, *b.* ♀, Shonga: iris brown.

This form is scarcely more than a small W.-African race of *H. melanocrissa* (Rüpp.).

45. *NECTARINIA PULCHELLA*.

Certhia pulchella, Linn. S. N. i. 1766, p. 187.

Nectarinia pulchella, Hartl. Orn. W.Afr. p. 52; Shelley, Monogr. Sun-birds, p. 9, pl. 4.

a. Lukoja, August 1882. *b, c.* Rabba (*Greenshields*). All these are adult males in full plumage.

46. *CINNYRIS CUPREUS*.

Certhia cuprea, Shaw, Gen. Zool. vii. 1812, p. 201.

Nectarinia cuprea, Hartl. Orn. W.Afr. p. 48.

Cinnyris cupreus, Shelley, Monogr. Sun-birds, p. 191, pl. 58.

a. ♂, Lukoja; *b.* Shonga; *c.* not labelled. These three are all males in full plumage.

47. CINNYRIS SPLENDIDUS.

Certhia splendida, Shaw, Gen. Zool. viii. 1812, p. 191.

Nectarinia splendida, Hartl. Orn. W.Afr. p. 46.

Cinnyris splendidus, Shelley, Monogr. Sun-birds, p. 201, pl. 62.

a. ♂, Lukoja; *b.* ♂, Shonga. Both are males in full plumage.

48. CINNYRIS VENUSTUS.

Certhia venusta, Shaw, Nat. Misc. x. 1799, pl. 369.

Nectarinia venusta, Hartl. Orn. W.Afr. p. 48.

Cinnyris venustus, Shelley, Monogr. Sun-birds, p. 235, pl. 74. figs. 1, 3.

a, b, Lukoja; *c, d,* Shonga. These are all males in full plumage; those from Lukoja have the bill very slightly smaller, and the breast and under tail-coverts brighter yellow, but cannot, I think, be separated specifically.

49. ANTHREPTES HYPODILA.

Nectarinia hypodilos, Jerd. Contr. Orn. 1851, p. 153; Hartl. Orn. W.Afr. p. 52.

Nectarinia subcollaris, Hartl. Orn. W.Afr. p. 52.

Anthodieta hypodila, Shelley, Monogr. Sun-birds, p. 345.

Anthreptes hypodila, Shelley, tom. cit. pl. iii. figs. 1, 2, p. xlviii.

a. ♂, Onitschi.

50. PASSER OCCIDENTALIS.

Pyrgita simplex, Swains. (nec Licht.), B. W. Afr. i. 1837, p. 208.

Passer simplex, Hartl. Orn. W.Afr. p. 150.

Passer swainsoni, pt., Hartl. & Finsch, Vög. Ost-Afr. p. 450.

a. not labelled.

The name *Passer simplex*, Swains., cannot be employed for

this bird, because *Fringilla simplex*, Licht. (Verz. Doubl. 1823, p. 24), is a different species ; therefore the W.-African form, if it is to be kept separate from *P. diffusus* (Smith), requires a name ; and I here propose for it *Passer occidentalis*, on account of its being the western representative of this little group.

In Africa there have generally been recognized as distinct species three closely allied forms of Sparrows :—

1. *P. diffusus*, Smith, Rep. Exp. Expl. Centr. Afr. 1836, p. 50.

2. *P. simplex*, Swains. (nec Licht. 1823), B. W. Afr. i. 1837, p. 208.

3. *P. swainsoni*, Rüpp. Neue Wirb. Vög. 1835-40, p. 94, pl. 33. fig. 2.

Swainson, as stated in his work, named the W.-African form *P. simplex* on the authority of Rüppell ; therefore it appears almost certain that *P. swainsoni*, Rüpp., was published subsequently. For the very obvious reason that *P. diffusus*, Smith, was published the year prior to *P. simplex*, Swains., that name must be the oldest of the three. Therefore, should these three forms be united, as Drs. Hartlaub and Finsch propose (*l. c.*), as races of one species, then *Passer diffusus* (Smith) should be the name adopted for them collectively ; and this appears to me to be the correct view to take.

51. CRITHAGRA CHRYSOPYGA.

Crithagra chrysopya, Swains. B. W. Afr. i. 1837, p. 206, pl. 17 ; Hartl. Orn. W.Afr. p. 154.

a, not labelled.

52. FRINGILLARIA SEPTEMSTRIATA.

Emberiza septemstriata, Rüpp. Neue Wirb. 1835-40, p. 86, pl. 30. fig. 2.

Fringillaria septemstriata, Hartl. Orn. W.Afr. 1857, p. 152.

a, not labelled.

53. PYRENESTES OSTRINUS.

Loxia ostrina, Vieill. Ois. Chant. 1805, p. 79, pl. 48.

Pyrenestes sanguineus, Swains. B. W. Afr. i. p. 156, pl. 9.

Pyrenestes ostrinus, Hartl. Orn. W.Afr. p. 139.

a. ♂, Shonga, November: iris chestnut-brown; bill blue-black; culmen basally greyish blue; eyelids black, with pale blue-grey median spots on each; legs dark horn-colour. A very fine adult specimen of this rare species.

54. *HYPHANTORNIS TEXTOR.*

Oriolus textor, Gm. i. 1788, p. 390.

Hyphantornis textor, Hartl. Orn. W.Afr. 1857, p. 124.

a. Rabba (*Greenshields*). *Adult male.* *b.* ♂, Shonga, November: iris orange; bill and feet flesh-colour; upper mandible inclining to horn-colour. *Immature?* *c.* ♀, Shonga: iris scarlet; bill livid flesh-colour; feet light red. *Adult?* *d.* ♂, now breeding, Abutschi: iris pale orange-brown; bill horn-colour; lower mandible very pale flesh-colour at base; feet pale flesh-colour. *Immature:* *e.* ♂, Loko. A wrong label appears to have been attached to this specimen. It is very similar to *d.*

55. *HYPHANTORNIS CAPITALIS.*

Tanagra capitalis, Lath. Ind. Orn. i. p. 432.

Hyphantornis capitalis, Hartl. Orn. W.Afr. p. 124.

a. ♂, Abutschi, August: iris brown; feet flesh-colour. *b.* ♀, Abutschi: iris orange-brown; bill and feet as in male *a.* *c.* ♂, Shonga: bill black; lower mandible inclining to horn-colour; legs dirty flesh-colour: in partial moult. *d.* ♂, Shonga: iris pearly; bill blackish; base of mandible horn-colour; feet greyish flesh-colour: immature or in full moult.

56. *HYPHANTORNIS PERSONATUS.*

Ploceus personatus, Vieill. Gal. Ois. i. 1825, p. 117, pl. 84.

Hyphantornis personatus, Hartl. Orn. W.Afr. p. 123.

a. ♀, Egga: iris brown; feet grey.

57. *HYPHANTORNIS ATROGULARIS.*

Textor atrogularis, Heugl. (nec Voigt), J. f. O. 1864, p. 245.

Hyphantornis atrogularis, Heugl. Orn. N.O.-Afr. p. 559, pl. 19.

a. ♂, Lukoja: iris buffy white; bill black; feet flesh-colour.

This species is now received for the first time from Western Africa.

This form, I think, can only be confounded with *H. vitellinus* and *H. taniopterus*, in both of which the upper throat and cheeks are black, but which have no black band across the forehead, the feathers behind the base of the culmen never being black.

The following short key will, I think, clearly point out their specific characters:—

- a.* Sides of the forehead next to the nostrils black; front half of the crown strongly shaded with chestnut.
- a'.* Black of the throat confined to the chin and upper portion, not extending below the jawbone; entire ear-coverts black *vitellinus*.
- b'.* Black of the throat extending below the jawbone, nearly to the crop; ear-coverts chestnut, fading behind into deep yellow *taniopterus*.
- b.* Sides of the forehead next to the nostrils deep golden yellow, like the crown; crown not shaded with chestnut; black of the throat extending nearly to the crop; ear-coverts black, edged behind with yellow *atroregularis*.

58. HYPHANTORNIS SUPERCILIOSUS.

Hyphantornis superciliosus, Shelley, Ibis, 1873, p. 140.

- a.* ♀?, Shonga, 17th November: soft parts as in male.
- b.* ♂, 18th November: iris brown; upper mandible dark horny black, lower one pale bluish grey; legs dirty flesh-colour. *c.* ♂, Shonga, 29th November: iris olive-brown; upper mandible horn-colour, lower one pale flesh-colour; feet dirty flesh-colour. *d.* ♂, Shonga, 1st December.

b has the entire crown and lower throat yellow, and the breast mottled with that colour; *a* has only a slight mottling of yellow on the lower throat and breast; *c* and *d* are entirely without yellow. From this it would appear that the present species moults out of the breeding-plumage in November.

59. HYPHANTORNIS AURANTIUS.

Malimbe orangé, Vieill. Ois. Chant. 1805, p. 73, pl. 44.

Ploceus aurantius, Vieill. Nouv. Dict. xxxiv. 1819, p. 130.

Hyphantornis aurantius, Hartl. Orn. W.Afr. p. 121.

- a.* ♂, Abutschi, August: iris orange-brown; feet flesh-colour.

60. *HYPHANTORNIS BRACHYPTERUS*.

Ploceus brachypterus, Swains. B. W. Afr. i. 1837, p. 168, pl. 10.

Hyphantornis brachypterus, Hartl. Orn. W.Afr. p. 121.

a, Shonga, November: iris yellowish grey; feet livid.
b. ♂, December: iris pale stone-colour; beak black; feet bluish grey: length in the flesh 6·5 inches. *c*. ♀, Shonga: iris very pale stone-colour; bill black; legs light bluish grey.
d. ♀, Shonga, December: length in the flesh 6·5 inches; soft parts as in the others. *e*. ♀, Shonga.

61. *HYPHANTORNIS CASTANEOFUSCUS*.

Ploceus castaneofuscus, Less. Rev. Zool. 1840, p. 99.

Hyphantornis castaneofuscus, Hartl. Orn. W.Afr. 1857, p. 126.

a. ♂, Onitschi, August: iris yellow.

62. *MALIMBUS SCUTATUS*.

Sycobius scutatus, Cass. Proc. Acad. Nat. Sc. Philad. iv. 1849, p. 157; Hartl. Orn. W.Afr. 1857, p. 133.

Malimbus scutatus, Elliot, Ibis, 1876, p. 460.

a. ♂, Onitschi: iris brown.

63. *PYROMELÆNA FLAMMICEPS*.

Euplectes flammiceps, Swains. B. W. Afr. i. 1837, p. 186, pl. 13; Hartl. Orn. W.Afr. 1857, p. 127.

a. ♂, *b*, Abutschi, August: both in full plumage.

64. *PYROMELÆNA FRANCISCANA*.

Loxia franciscana, Isert, Schrift. Berlin. Nat. Fr. ix. p. 332.

Euplectes franciscanus, Hartl. Orn. W.Afr. 1857, p. 128.

a, Rabba (*Greenshields*); *b*, Abutschi, August. Both in full plumage.

65. *PYROMELÆNA AFRA*.

Loxia afra, Gm. S. N. i. 1788, p. 857, ex Brown.

Euplectes melanogaster, Hartl. Orn. W.Afr. p. 128.

a. ♀, Egga: bill horn-colour; feet dirty flesh-colour. *b*. ♂, Egga.

66. *COLIOSTRUTHUS MACRURUS*.

Loxia macroura, Gm. S. N. i. 1788, p. 845.

Caliostruthus macrourus, Hartl. Orn. W.Afr. p. 137.

a, Lukoja; *b*. ♂, Abutschi, 19th August: iris brown; feet yellowish brown. *c*. ♂, Abutschi, August: iris brown; bill brownish black; apex of mandible pale bluish grey; legs horny grey. *d*, Lukoja. *e*. ♂?, Shonga, November: iris brown; bill and feet flesh-colour; upper mandible inclining to horn-colour. *f*, Lukoja: iris brown; bill and legs pale flesh-colour; upper mandible horn-colour. *g*. ♀. The three last specimens are in the brown plumage, with no trace of yellow.

67. *VIDUA PRINCIPALIS*.

Emberiza principalis, Linn. S. N. i. 1766, p. 313.

Vidua principalis, Hartl. Orn. W.Afr. p. 136.

a, Aboh. In full plumage.

68. *SPERMESTES CUCULLATA*.

Spermestes cucullata, Swains. B. W. Afr. i. p. 201; Hartl. Orn. W.Afr. p. 147.

a. ♀, immature, Lukoja. *b*: iris brown; bill blackish grey; legs dark grey. These specimens are both in the immature brown plumage.

69. *PYTELIA HYPOGRAMMICA*.

? *Fringilla afra*, Gm. S. N. i. 1788, p. 905, ex Brown.

Pytelia afra, Hartl. Orn. W.Afr. p. 149.

Pytelia hypogrammica, Sharpe, Ibis, 1870, p. 56.

a. ♂, Loko: iris crimson.

This specimen, which I have compared with the type of *P. hypogrammica* in the British Museum, evidently belongs to that species. I consider the *Fringilla afra*, Gm., ex Brown, cannot be determined, as Brown's description, taken from an Angola bird, would apply equally well to the *Pytelia wieneri*, which, according to Forbes (P. Z. S. 1880, p. 476, pl. 47. fig. 2) has been met with in Angola.

70. *LAGONOSTICTA MELANOGASTRA*.

Lagonosticta melanogastra, Heugl. J. f. O. 1863, p. 273.

Rhodopyga hypomelas, Heugl. J. f. O. 1868, p. 13, pl. i. fig. 4.

Habropyga hypomelæna, Heugl. Orn. N.O.-Afr. p. 611.

Lychnidospiza melanogastra, Heugl. tom. cit. App. p. 137.

a. ♂, Lukoja: iris brown; eye-ring very pale pink; bill rosy, upper mandible blackish; feet dark grey. Full adult.

b. ♂, Lukoja, 27th August: immature.

Specimen *b* I presume to be a young bird of this species; the entire head and body are ashy brown, only slightly washed with red on the crop.

This bird has been well figured. It is rare in collections, and was hitherto only known from N.E. Africa.

I see no reason for separating this species from the genus *Lagonosticta*. The members of this genus have the rump, upper tail-coverts, and edges of the tail-feathers red; under wing-coverts white or nearly so; generally with small white spots on the sides of the chest.

Key to the W.-African members of the Genus Lagonosticta.

a. Chin and throat red.

*a*¹. Crown and mantle red.

*a*². Centre of the chest, abdomen, and under tail-coverts jet-black; no white spots on the sides of the chest *melanogastra*.

*b*². With no black on the chest, abdomen, or under tail-coverts; with white spots on the sides of the chest more or less visible..... *minima*.

*b*¹. Mantle brown; with white spots on the chest.

*b*². Darker; with no pink shade on the red portions; bill uniform slaty grey *polionota*.

*c*². Paler; with a strong pink shade on the red portions; larger portion of the bill red *rufopicta*.

b. Chin and throat black; chest, crown, and mantle ashy grey, the latter slightly darker; with small white spots on the sides of the chest *nigricollis*.

71. LAGONOSTICTA MINIMA.

Fringilla minima, Vieill. Nouv. Dict. xii. 1817, p. 183.

Lagonosticta minima, Hartl. Orn. W.Afr. p. 143.

a. ♂, Lukoja: iris olive-brown; eye-ring yellow; feet dark flesh-colour. *b.* ♀, Lukoja, 28th August: eye-ring yellow; bill rosy red, blackish towards the culmen; feet fleshy brown.

72. LAGONOSTICTA RUFOPICTA.

Estrilda rufopicta, Fraser, P. Z. S. 1843, p. 27.

Lagonosticta rufopicta, Hartl. Orn. W.Afr. p. 143.

a. ♀, Abutschi, August. b. ♂, Abutschi.

73. LAGONOSTICTA NIGRICOLLIS.

Estrellda nigrlicollis, Heugl. J. f. O. 1863, p. 273.

Lagonosticta nigrlicollis, Heugl. J. f. O. 1868, p. 17, pl. i. fig. 1.

a. ♂, Lukoja, 20th August: iris brown; eye-ring and bill pale greyish blue, the latter darker on the culmen and apex; legs dark grey.

This rare species is here recorded from W. Africa for the first time.

74. ESTRELLA CINEREA.

Fringilla cinerea, Vieill. Nouv. Dict. xii. 1817, p. 176.

Estrellda cinerea, Hartl. Orn. W.Afr. p. 141.

a. ♀, Shonga: iris ochraceous brown. b. ♀, Shonga: iris brown; bill red; feet horn-colour. c. ♀, Shonga: iris brown; bill very red; feet dark horn-colour.

75. ESTRELLA MELPODA.

Fringilla melpoda, Vieill. Nouv. Dict. xii. 1817, p. 177.

Estrellda melpoda, Hartl. Orn. W.Afr. p. 141.

a. ♂, Shonga: iris light brown; bill scarlet; legs dark horn-colour. b, Lukoja.

76. ESTRELLA SUBFLAVA.

Fringilla subflava, Vieill. Nouv. Dict. xxx. 1819, p. 575.

Estrellda subflava, Hartl. Orn. W.Afr. p. 144.

a. ♂ breeding, Shonga, 1st December: iris red; bill scarlet, black along the culmen and symphysis; feet flesh-colour.

77. LAMPROCOLIUS PURPUREUS.

Turdus purpureus, P. L. S. Müll. S. N. Suppl. 1776, p. 143, descr. good.

Turdus auratus, Gm. S. N. i. 1788, p. 819.

Lamprotornis ptilonorhynchus, Swains. B. W. Afr. i. p. 140.

Lamprocolius auratus, Hartl. Orn. W.Afr. p. 117.

Lamprotornis amethystina, Heugl. J. f. O. 1863, p. 20.

Lamprocolius auratus et var. *orientalis*, Hartl. Abhandl. Nat. Ver. Bremen, iv. 1874, pp. 57, 59.

a, Lukoja: iris bright yellow.

I have compared a good series of specimens from W. and N.E. Africa, and they appear to me perfectly similar in measurements and colouring.

Müller's description (*l. c.*) is a very good one, so I feel bound to reject Gmelin's name, although in more general use.

78. DENDROPICUS LAFRESNAYI.

Dendropicus lafresnayei, Malh. Rev. et Mag. Zool. 1849, p. 533; Hartl. Orn. W.Afr. p. 177.

a. ♀, Shonga: iris pale lake; bill and feet plumbeous.

79. MEROPS NUBICUS.

Merops nubicus, Gm. S. N. i. p. 464; Hartl. Orn. W.Afr. p. 41.

a. ♂, *b*. ♀, Shonga: iris red; feet dark lead-colour.
c. ♀, Rabba: "iris ochraceous. Flies in stomach" (*Green-shields*).

80. MEROPS ALBICOLLIS.

Merops albicollis, Vieill. Nouv. Dict. xiv. 1817, p. 15; Hartl. Orn. W.Afr. p. 39.

a. ♂, *b*. ♂, *c*. ♀, Shonga: iris red; feet olive.

81. MELITTOPHAGUS BULLOCKI.

Merops bullocki, Vieill. Nouv. Dict. xiv. 1817, p. 13.

Merops bullockii, Hartl. Orn. W.Afr. p. 41.

a. ♀, *b*, Shonga: iris brown; bill and feet black.

82. MELITTOPHAGUS PUSILLUS.

Merops pusillus, P. L. S. Müll. S. N. Suppl. 1776, p. 95.

Merops erythropterus, Hartl. Orn. W.Afr. p. 40.

a. ♀, Shonga: iris scarlet; feet blackish.

83. CORYTHORNIS CYANOSTIGMA.

Alcedo cyanostigma, Rüpp. Neue Wirb., Vög. 1835-40, p. 70, pl. 24. fig. 2.

Corythornis cristata, Hartl. (nec Linn.) Orn. W.Afr.p. 36 ; Sharpe, Monogr. Alced. p. 35, pl. 11.

Corythornis cyanostigma, Sharpe, tom. cit. p. vi.

a, Shonga: iris brown ; bill black ; feet brownish, soles red. Immature.

84. HALCYON SEMICÆRULEA.

Alcedo semicærulea, Forsk. Descr. Anim. 1775, p. 2.

Halcyon semicærulea, Hartl. Orn. W.Afr. p. 33 ; Sharpe, Monogr. Alced. p. 173, pl. 64.

a. ♂, Shonga: iris brown ; bill and feet bright red.

85. HALCYON SENEGALENSIS.

Acedo senegalensis, Linn. S. N. i. 1766, p. 180.

Halcyon senegalensis, Hartl. Orn. W.Afr. p. 31 ; Sharpe, Monogr. Alced. p. 191, pl. 70.

Halcyon cyanoleuca, Hartl. Orn. W. Afr. p. 31 ; Sharpe, Monogr. Alced. p. 189, pl. 69.

a. ♀, Shonga: iris brown ; upper mandible scarlet, lower one black ; feet black, sole reddish. *b*. ♀, Shonga: iris brown ; upper mandible bright red, lower one jet-black ; feet black, soles red. Insects in crop. *c*. ♂, Shonga.

I do not think that *H. cyanoleuca* (Vieill.) can be considered specifically distinct from *H. senegalensis*, for it appears to me that Mr. Sharpe in his Monograph has figured and described an extreme form, and that a perfectly intermediate series is to be met with, of which Mr. Forbes's specimens form a part.

86. HALCYON MALIMBICA.

Alcedo malimbica, Shaw, Gen. Zool. viii. 1812, p. 66.

Halcyon cinereifrons, Hartl. Orn. W.Afr. p. 32.

Halcyon malimbica, Sharpe, Monogr. Alced. p. 195, pl. 72.

a. ♂, Shonga: iris brown ; upper mandible red and black, lower one black ; feet red.

This species may be most readily distinguished from its nearest ally, *H. dryas*, by having the lower mandible black. Mr. Sharpe gives correct figures of these two species in his

Monograph of this family, but by error describes the under mandible of *H. dryas* as black.

87. *TOCCUS SEMIFASCIATUS*.

Buceros semifasciatus, Temm. MS. ; Hartl. J. f. O. 1855, p. 356 ; id. Orn. W.Afr. p. 163 .

Tockus semifasciatus, Elliot, Monogr. Buccrotidæ, 1882, pl.

a. ♂, Shonga, November : iris brown, greyish round pupil ; bill dirty pale yellow and black ; feet black.

88. *MUSOPHAGA VIOLACEA*.

Musophaga violacea, Isert, Shrift. Berlin. Nat. Fr. ix. 1789, p. 18, pl. 1 ; Hartl. Orn. W.Afr. p. 160.

The collection contains the portion of a wing of this species.

89. *SCHIZORHIS AFRICANUS*.

Phasianus africanus, Lath. Ind. Orn. ii. 1790, p. 631.

Schizorhis africanus, Hartl. Orn. W.Afr. p. 160.

a. ♀, Shonga : iris olive-brown ; bill yellow ; legs dark horny black.

90. *CENTROPUS SENEGALENSIS*.

Cuculus senegalensis, Linn. S. N. i. 1766, p. 169.

Centropus senegalensis, Hartl. Orn. W.Afr. p. 187 ; Sharpe, P. Z. S. 1873, p. 617.

a. ♀ adult, Shonga : iris scarlet. *b.* ♂ adult, Egga : iris bright red. *c.* ♀ immature : iris brownish orange ; upper mandible dark horn-colour, lower one fleshy brown ; feet black.

91. *CENTROPUS MONACHUS*.

Centropus monachus, Rüpp. Neue Wirb. 1835-40, p. 57, pl. 21. fig. 2 ; Hartl. Orn. W.Afr. p. 187 ; Sharpe, P. Z. S. 1873, p. 620.

a. ♀ adult, Shonga, December : iris crimson ; bill black ; legs very dark grey. Length in the flesh 17·3 inches. Stomach contained frogs' bones, Mantidæ and other Orthoptera. *b.* adult, not labelled. *c.* ♀ immature, Shonga,

November: iris brownish orange, upper mandible dark horn-colour, lower one dirty flesh-colour; feet black.

92. *POGONORHYNCHUS VIEILLLOTI*.

Pogonias vieilloti, Leach, Zool. Misc. 1815, pl. 97; Hartl. Orn. W.Afr. 1857, p. 170.

Pogonorhynchus vieilloti, Marshall's Monogr. Cap. 1871, p. 21, pl. 11.

a. ♂, Shonga: iris chestnut, yellower round pupil; bill and legs black.

93. *PSITTACUS SENEGALENSIS*.

Psittacus senegalensis, Linn. S. N. i. 1776, p. 149.

Psittacus senegalus, Hartl. Orn. W.Afr. p. 168.

a. ♂ breeding, Shonga: iris bright yellow, with a slight green circumpupillar ring; bill and feet greyish black; orbits and cere black. *b.* ♂, Shonga: iris yellow, with greenish ring round pupil. *c.* Shonga.

94. *PSITTACULA PULLARIA*.

Psittacus pullarius, Linn. S. N. i. 1766, p. 149.

Agapornis pullaria, Hartl. Orn. W.Afr. p. 168.

a. ♂, Shonga.

95. *SCOTOPELIA PELI*.

Scotopelia peli, Bp. Consp. Gen. Av. i. 1850, p. 44; Hartl. Orn. W.Afr. p. 18; Sharpe, ed. Layard's B. S. Afr. p. 69; id. Cat. B. Brit. Mus. ii. p. 18.

a. ♂, Shonga: iris brown; bill blackish, cere grey; feet very pale yellowish flesh-colour, claws grey.

96. *ASTUR SPHENURUS*.

Falco sphenurus, Rüpp. Neue Wirb., Vög. 1835-40, p. 42.

Astur brachydactylus, Hartl. Orn. W.Afr. p. 14.

Astur sphenurus, Sharpe, Cat. B. Brit. Mus. i. p. 112.

a. ♀, Shonga: iris fiery orange-red, yellower round pupil; cere yellow; bill black, bluish at the base; legs dull orange-yellow.

This example is fully adult, and agrees perfectly with a specimen in my own collection from Bogos (*Esler*).

97. ARDEA ALBA.

Ardea alba, Linn. S. N. i. 1766, p. 239; B. O. U. List Brit. B. 1883, p. 108.

Ardea flavirostris, Hartl. Orn. W.Afr. p. 220.

a, Rabba: "beak yellow" (*Greenshields*).

98. ARDEA BUBULCUS.

Ardea bubulcus, Audouin, Expl. Somm. Pl. Ois. de l'Egypte, i. 1825, p. 298; Hartl. Orn. W.Afr. p. 222; B. O. U. List Brit. B. 1883, p. 109.

a. ♂, Shonga: iris bright yellow; bill and nude face chrome-yellow; legs black.

99. TRERON CALVA.

Columba calva, Temm. & Knip, Pig, i. 1808-11, p. 35, pl. 7.

Treron crassirostris, *calva* et *nudirostris*, Hartl. Orn. W.-Afr. p. 192.

a. ♀, Shonga: iris cobalt; bill and fleshy cere vermilion; nail of bill pearl-grey; legs orange-yellow; claws grey.

100. TURTUR SENEGALENSIS.

Columba senegalensis, Linn. S. N. i. 1766, p. 195.

Turtur senegalensis, Hartl. Orn. W.Afr. p. 195.

a, not labelled.

101. FRANCOLINUS BICALCARATUS.

Tetrao bicalcaratus, Linn. S. N. i. 1766, p. 277.

Francolinus bicalcaratus, Hartl. Orn. W.Afr. p. 201.

a. ♂, Shonga: iris brown; bill yellow, greenish at base; culmen dark; legs dull greenish yellow.

102. PLUVIANUS ÆGYPTIUS.

Charadrius ægyptius, Linn. S. N. i. 1766, p. 254.

Pluvianus ægyptius, Hartl. Orn. W. Afr. p. 209.

a. ♀, Shonga.

103. ÆGIALITIS FORBESI, sp. nov. (Plate XIV.)

? *Pluvialis minima indica*, Briss. Orn. ii. 1763, p. 234.

Charadrius indicus, Lath. Ind. Orn. ii. 1790, p. 750 (ex Briss.), apud Hodgson.



J.G.Keulemans lith.

ÆGIALITIS FORBESI.

Hanhart imp.

Ægialites tricoloris, Hartl. (nec Vicill.) Orn. W.Afr. p. 216.

Ægialitis indicus, Shelley & Buckley, Ibis, 1872, p. 293.

a. ♀, Shonga, November: iris grey brown; a broad scarlet eyelid; bill black, with the base pink; legs very pale pink.

Mr. Harting has examined the type of Mr. Hodgson's *Charadrius indicus*, which I presume to be the true *C. indicus*, Lath., and assures me it belongs to the present species. As this bird is West-African, and apparently confined to that subregion, the name *indicus* is not applicable, so I propose to call it *Ægialitis forbesi*, as an appropriate acknowledgment to the memory of the late Mr. W. A. Forbes.

I shall give a comparative description of this species from his specimen and two in my own collection from the Gold Coast, with the South-African *Æ. tricoloris*, its nearest ally. *Æ. forbesi* differs from *Æ. tricoloris* as follows:—It is larger; forehead ashy brown, slightly paler than the crown; a brownish-buff eyebrow extends backwards from over the eye round the nape; the two pairs of outer tail-feathers are white, the outer pair with three or four imperfect brownish-black bars, the next pair with four or five somewhat similar bars; remainder of the head and neck ashy brown, fading almost into white on the chin and centre of the upper throat, and into dark brown towards the crop; beneath this is a white collar, followed by a broader dark brown one across the upper chest. Total length 8·2 inches, culmen 0·7, wing 5, tail 3, tarsus 1·25.

Æ. tricoloris has a broad white forehead connected with a clear white eyebrow, which extends backwards round the nape; the underparts are white, with two rather sharply defined black collars, the front one very narrow; the two outer pairs of tail-feathers are white, with a single subterminal blackish-brown bar. The eyelids are scarlet, and not so thick; bill blackish, with the base of the lower mandible deep rose-red; legs fleshy brown. Total length 6·5 inches, culmen 0·6, wing 4·3, tail 2·5, tarsus 0·95.

104. TRINGOIDES HYPOLEUCUS.

Tringa hypoleucos, Linn. S. N. i. 1766, p. 250.*Actitis hypoleucos*, Hartl. Orn. W.Afr. p. 235.*Tringoides hypoleucos*, B. O. U. List B. Birds, 1883, p. 173.*a*, Egga: legs yellowish green.

— 105. STERNA CASPIA.

Sterna caspia, Pall. Nov. Comm. Petrop. xiv. 1769, p. 582; Hartl. Orn. W.Afr. p. 253.*a*. ♂, Bonny river.

XLI.—Notices of recent Ornithological Publications.

(Continued from p. 384.)

102. *Blakiston on the Geographical Distribution of the Birds of Japan.*

[“Zoological Indications of ancient connections of the Japan Islands with the Continent.” Transactions of the Asiatic Society of Japan, 1883, p. 126.]

A very interesting paper on the difference between the fauna of the north island of Japan and that of the southern island, showing that the former is essentially Siberian and the latter Chinese.

103. *Blakiston's Ornithological Notes.* Nos. I.—III.

[Ornithological Notes.—I. Birds observed on the South-east Coast of Yezo in May. By T. W. Blakiston. The Chrysanthemum, vol. ii. pp. 424, 471, 521. II. Autumn collecting at Sapporo, Yezo. *Ibid.* vol. iii. p. 26. III. Messrs. Jouy and Smith's late collections. *Ibid.* vol. iii. p. 76.]

These papers, published in the new Japanese periodical called ‘Chrysanthemum,’ are specially valuable for their information respecting the birds which breed on the north island of Japan and those which only pass through on migration. The second series of Notes is an important paper on the birds of the north island of Japan. In the third, amongst many interesting notes on the birds collected on the main island of Japan, Mr. Blakiston clearly distinguishes between